

CARLA HARRELL

BS MT(ASCP) CYM
MS Data Science

CONTACT

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STRENGTHS

Learner, Adapter, Team Player, Analytical, Reliable

KEY SKILLS

TECHNICAL SKILLS:

R, Python, Spark, Hadoop, Git, Tableau, PowerBi, Excel

FRAMEWORKS/LIBRARIES:

SciKit-Learn, NLTK, Pandas, NumPyMatplotlib, OpenCV, TensorFlow, Keras, K-means

WORK EXPERIENCE

Dallas VA Medical Center, Dallas, TX
Technical Specialist GS-0644-11
Flow Cytometry
Hours per week: 40

11/2008-Present

- Develop and apply policies, procedures, precedents, regulatory, licensing, and accrediting requirements to establish, monitor and maintain the specialized testing.
- Serve as a consultant and advisor to area officials and laboratory personnel on various aspects of laboratory management and testing.
- Auditor of the College of American Pathologists (CAP) checklist. Responsible for ensuring the section meets CAP requirements for continuing accreditation including reviewing checklist requirements and writing new or altering existing policies and procedures to comply with current guidelines and requirements.
- Develop/write laboratory developed test following the FDA guidelines using accuracy, intra-precision, inter-precision, lower limit of detection, carry-over, stability, sensitivity, and more.
- Develop the sections quality control procedures to comply with CAP requirements for FDA cleared/approved testing and laboratory developed testing.
- Interpret agency policies and directives, prepares guidelines governing laboratory operations, and advises supervisors on the preparation, maintenance, review, and revision of procedural manuals.
- Have skills in making qualitative evaluations of laboratory services by developing/revising guidelines and standards for use by operating personnel, and incorporating new technology in laboratory programs.
- Direct workflow and oversee assignments to ensure organization goals and objectives are achieved.
- Analyze emerging trends and technology and adopts appropriate methods and testing.
- Instruct and evaluate competencies for both employees and students in flow cytometry instrumentation operation, proper performance of laboratory tests, laboratory application and theory.
- Advise all organizational levels on various aspects of specialized testing, including appropriateness that takes into consideration clinical context.
- Extract and analyze data for continuous quality improvement.
- Perform, report, and evaluated of proficiency testing.
- Analyze outliers from proficiency testing data, investigate causes, and provide corrective actions.
- Perform and monitor complex maintenance, troubleshooting and documents instrument malfunctions, while serving as an advisor to others regarding correct course of action.
- Monitor, evaluate, and review quality control data and assurance activities using a variety of statistical methods including; calculating means, standard deviations, identifying outliers, and evaluating Levy-Jennings and performing linearity experiments. Perform and/or advise on appropriate corrective actions.
- Develop validation protocols, collect and analyze data for complex test systems, assess precision and accuracy in accordance with regulatory requirements.

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- Initiate requests for disposition of documents, equipment removal, and equipment replacement.
- Manage and direct work flow and ensure turn-around-times are met and competencies are maintained by designating technologist bench assignments and assigning proficiency testing.
- Meet with vendors to discuss current and future needs of the laboratory.
- Work independently and make independent judgments and provided only general assignments parameters, deadlines and priorities by my supervisor.

Accomplishments:

- Serve as Records Liaison coordinator for Pathology and Laboratory and led a team to organized, re-label, pack and store over 300 boxes of records to submit to Record's Management.
- Served as person in charge for Client Services and Immunopathology, a 16-member team, during the Supervisors absence.
- Manage Quality Improvement (QI) measures for section including extracting and analyzing data, documenting discrepancies, providing corrective actions, and reporting data to Quality Improvement committee. Performance measures routinely out performed expectations.
- Serve as Inspection Team Member for College of American Pathologist (CAP).
- Created Access database to organize and track inventory and equipment allowing for the efficient monitoring of items, their locations, and replacement dates.
- Created excel spreadsheets to organize and track inventory and equipment allowing for the efficient monitoring of items, their locations, and replacement dates.

Instrumentation:

BD FACSCanto II, BD FACSCalibur, BD FACScan, Sysmex XP-300, Sysmex KX-N1

Dallas Arthritis Center, Dallas, TX
Clinical Laboratory Consultant/Supervisor
7/2008 to present
Hours per week: 8

7/2008 to present

- Serve as a clinical laboratory consultant/supervisor for moderately/highly complexity test.
- Evaluate and revise procedures to ensure compliance with applicable CLIA rules and regulations.
- Advise management on implementing compliance and enhancing best laboratory practices.
- Enroll in CLIA laboratories program since 2008.
- Enroll and participate in a CAP and API proficiency testing program.
- Research, evaluate and update point-of-care methodologies and incorporate pertinent concepts and practices.
- Conduct internal surveys to ensure CLIA compliance.
- Provide regulatory and technical guidance to laboratory and testing personnel utilizing Clinical Laboratory Improvement Amendments (CLIA) regulations and policies.
- Research point of care methodologies and incorporate pertinent concepts and practices in laboratory.
- Evaluate/monitor survey data and judged the severity and impact on patient testing.
- Present technical update, regulatory interpretation, and laboratory practices to laboratory management.
- Develop laboratory policies, procedures, and/or directive memorandum related to laboratory quality.
- Present technical update, regulatory interpretation, and laboratory practices to laboratory management.
- Develop laboratory policies, procedures, and/or directive memorandum related to laboratory quality.
- Prepare reports of laboratory finding and trends to communicate CLIA requirement findings to laboratory management.
- Perform analytical statistics for quality control using Levy-Jennings, standard deviations, coefficient of variations.
- Modify and adapt new methods or techniques to improve or expand services.
- Perform validations/method verification studies for new systems before placing into service.
- Perform the required daily start-up of appropriate instruments by following specific written or verbal guidelines.
- Perform all quality control procedures, using controls in test, monitoring the precision performance of all equipment, recorded results on the work list, filled packaging supplies, arranged for shipment of supplies, printed forms, faxed results, mailed results reports, and answered telephone request for information.
- Perform complex maintenance procedures and preventative maintenance on all equipment on the required schedule, and documents all data in the appropriate log.

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- Verify test procedures performed and establish the laboratory test performance characteristics, including the precision and accuracy of each test.
- Establish quality control program appropriate for the testing performed (internal and external controls, split samples etc.) and establish the parameter for acceptable levels of analytic performance and ensure that these levels are maintained throughout the entire testing process pre-analytical and post-analytical .
- Resolve all technical problems and ensure that remedial actions are taken whenever test systems deviate from the laboratory's established performance specifications.
- Ensure that patient test results are not reported until all corrective actions have been taken and the test system is functioning properly.
- Identify training needs and assure that each individual performing test receives regular in-service training and education appropriate for the type and complexity of the laboratory services performed.
- Evaluate the competency of all testing personnel.
- Evaluate and document the performance of individuals responsible for high complexity testing at least semiannually during the first year and annually thereafter.

Accomplishments:

- Kept laboratory CLIA compliant since 2008.

North Texas VA Medical Center, Dallas, TX
Medical Technologist GS-0644-09
CORE Laboratory
Hours per week: 40

6/2006 to 11/2008

- Performed highly complex testing in Hematology, Urinalysis, and Coagulation.
- Maintained and documented the optimal functioning of laboratory equipment.
- Provided education to adjunct staff in common laboratory policies and procedures including physicians and staff from other agencies as well as alternate site personnel.
- Performed, documented, and maintained records of quality control and assurance activities and corrective actions related to test performance on all instrumentation and reagents.
- Evaluated and implemented new techniques and procedures in the laboratory in terms of equipment, method comparison, and establishment of reference intervals using statistical methods and theoretical knowledge. Performed statistical manipulation of data as required. Incorporated principles of educational methodology in the instruction and training of new employees and students and in the laboratory's in-service/continuing education program.

Instrumentation:

Sysmex CBC Analyzer, Stago Star and Compact, Iris Urine Analyzer, Automation Systems, etc.

New Orleans VA Medical Center
Medical Technologist
Hours per week: 40

08/1989 to 06/2006

- Performed highly complex testing in Hematology, Flow Cytometry and Coagulation.
- Maintained and documented the optimal functioning of laboratory equipment.
- Provided education to adjunct staff in common laboratory policies and procedures; including physicians and staff from other agencies as well as alternate site personnel.
- Performed, documented, and maintained records of quality control and assurance activities and corrective actions related to test performance on all instrumentation and reagents.
- Evaluated and implemented new techniques and procedures in the laboratory in terms of equipment, method comparison, and establishment of reference intervals using statistical methods and theoretical knowledge. Performed statistical manipulation of data as required. Incorporated principles of educational methodology in the instruction and training of new employees and students and in the laboratory's in-service/continuing education program.

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Instrumentation:

Coulter's LH, American Diagnostic Compact and STAR, Coulter's GENS, Coulter's MAXM, Coulter's HMX, IL ACL 3000 Plus, MLA 1000C, MLA 700, Fibrometer, Elisa Plate Reader, Sysmex NE-8000, Hematrak 590, Coulter's MCL Plus

East Jefferson Hospital, Metairie Louisiana
Generalist Medical Technologist
Hours per month: 32

08/1989 to 08/2005

- Performed testing in Chemistry, Immunology, Microbiology, Urinalysis and Hematology.
- Performed pre-analytical and post-analytical processing of chemistry specimens ensuring laboratory results are accurate and meaningful to diagnosing physician.
- Properly performed, documented and evaluated quality controls in compliance with laboratory policy.
- Ensured laboratory instrumentation was in operational condition by performing and documenting daily, weekly, and monthly maintenance as required by manufacturer's recommendations and/or laboratory policy.
- Troubleshoot instrument malfunctions by investigating, determining and then correcting the root cause.

Instrumentation:

Performed test on E170, 2010, Beckman CX700, Kodak Ektachem 700, TDX, Baxter's Stratus, AxSYM, Coulter's LH, Cell Dyne, ACL1000, MLA 1000C, Fibrometer, etc.

VOLUNTEER EXPERIENCE

Give A Kid A Coat | 2012 to present

- Co-founder of Give A Kid A Coat.
- Organize a DFW area fundraising event to raise money and winter coats for local children in need with over 400 in attendance since 2012.
- Distribute over 5000 coats to Dallas Independent School District since 2012.
- Provide on-site volunteer leadership support during annual organization fundraising event to raise money and winter coats for local children in need.

EDUCATION

Bellevue University
Nebraska
Master of Science in Data Science 08/2020

LSU Medical Center Dual Degree
with Southern University
New Orleans
Bachelor of Science 08/1989

Southern University-Dual Degree with
LSU Medical Center
Bachelor's Degree, Medical Technology 08/1989

COMPUTER SKILLS

Entry-Level Python User
Entry-Level R Programming
Entry-Level Tableau
Entry-Level Pyramid Analytics
Entry-Level Adobe Illustrator
Proficient with MS Word, Excel, and Power Point, Access
Proficient with statistical software R,
EP Evaluator, and UNITY One
Proficient in VISTA, CPRS, and Sun Quest software platforms

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TRAINING

BD FACSCanto II
2014

Basic Concepts and Clinical Applications of Flow Cytometry
Certificate by AACC
2017

Coulters MCL Plus
2002

MLA1000C
1990

Coulter's GENS
1999

National Federation of Federal Employee Union Steward
2000

Chairperson "Stress and Aggression Action Team"
New Orleans VA Medical Center
2004

Certificate in Microsoft Windows NT
1999

CERTIFICATIONS

Medical Technologist
(American Society for Clinical Pathology)
Flow Cytometry
(American Society for Clinical Pathology)

ORGANIZATIONS/AFFILIATIONS

American Society for
Clinical Pathology (ASCP)-Member
Alpha Kappa Alpha Sorority

COMMITTEES/SPECIAL PROJECTS

College of American
Pathologist Inspection Team Member
• Evaluate compliance against
regulatory agency requirements cited in the
Clinical Laboratory Improvement Amendments
of 1988 (CLIA).

Lean Six Sigma Yellow Belt
Healthcare Analytic Certificate
Records Manager Alternate Coordinator

— AWARDS AND ACCOMPLISHMENTS —

Outstanding Performance Appraisal 2008-present

Combined Federal Campaign Key Worker

Quality Step Increase Award

Courtesy in Action Award

Shining Star Award